

ABSTRACT OF THE DISCLOSURE

A random number generating circuit comprises: the seed
generating circuit which generates a seed; and a pseudo random
5 number circuit which generates pseudo random numbers based
on the seed generated by the seed generating circuit. The
seed generating circuit has: an oscillating circuit which
oscillates continuously or intermittently, and which outputs
a digital data sequence; a smoothing circuit which outputs
10 time series data by controlling appearance frequencies of
"0" and "1" in the digital data sequence outputted from the
oscillating circuit; and a postprocessing circuit which
generates one-bit seed by a computation using a plurality
of bits included in the time series data.